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Amendment and Response to Office Action of July 28, 2005

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Amendments to the Claims:

Please amend claims 4 and 11 as follows. This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (previously presented) Camera for recording pictures comprising an image sensor for receiving a picture, a processing unit for processing the picture and an end processing unit, characterized in that the camera comprises a light modulation removal means between the processing unit and the end processing unit for removing light modulation between different fields of the picture, by averaging images having the same light modulation, wherein said light modulation removal means further comprises a motion detector for detecting the effect of motion on a scene.
2. (previously presented) Camera as claimed in claim 1, characterized in that the light modulation removal means comprise adaptive fading means for fading between one field and at least n fields, whereby n is the repetition pattern of light modulation.
3. (previously presented) Camera as claimed in claim 2, characterized in that the light modulation removal means comprise means to calculate the lowest common multiple of the repetition period of an illumination variation and the repetition period of said picture, which lowest common multiple is used as common period to average consecutive images of said picture during recording.

4. (currently amended) Camera as claimed in claim 3, characterized in that the light modulation removal means ~~comprise~~ comprises a motion detector and means to decrease the averaging of consecutive images when motion is detected, which motion detector comprises evaluation means to evaluate the local difference between images having a field difference of n.

5. (previously presented) Camera as claimed in claim 3, characterized in that the light modulation removal means comprises means to estimate the modulation strength on a locality of the image, and reducing means to reduce the averaging of consecutive images on localities where the light modulation is weak.

6. (original) Camera as claimed in claim 3, characterized in that the light modulation means comprises means to reduce the averaging on localities where the luminance component of said picture is low.

7. (previously presented) Camera as claimed in claim 3, characterized in that means to exclude high spatial frequency components of the picture from an averaging step.

8. (original) Camera as claimed in claim 3, characterized in that the light modulation removal means comprise means to correct consecutive images to the same temporal position using motion compensated conversion techniques prior to the averaging.

9. (previously presented) Camera as claimed in claim 1, characterized in that the light modulation removal means comprise de-interlacing means to generate information for any missing position in an original interlaced image, using two images with different interlace phases and equal light modulation phases.

10. (canceled)

11. (currently amended) Method of removing light modulation during recording pictures with an image sensor having the step of receiving a picture, processing the picture, removing the light modulation by storing different fields of the picture and averaging the different fields in dependence of motion, and/or locations with low respectively high luminance locations, wherein the removing step further comprises averaging images having the same light modulation, and detecting the effect of motion on a ~~during~~ scene.